

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/534,099A
Source: PT
Date Processed by STIC: 7/14/06

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PCT

RAW SEQUENCE LISTING

DATE: 07/14/2006

PATENT APPLICATION: US/10/534,099A

TIME: 10:18:51

Input Set : F:\UTSC772US.APP.txt

Output Set: N:\CRF4\07142006\J534099A.raw

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4   AKIYAMA, HARUHIKO
6 <120> TITLE OF INVENTION: HA4, A NEW OSTEOBLAST- AND CHONDROCYTE-SPECIFIC SMALL
7   SECRETED PEPTIDE, COMPOSITIONS AND METHODS OF USE
9 <130> FILE REFERENCE: UTSC:772US
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/534,099A
12 <141> CURRENT FILING DATE: 2005-05-06
14 <150> PRIOR APPLICATION NUMBER: PCT/US2003/035139
15 <151> PRIOR FILING DATE: 2003-11-04
17 <150> PRIOR APPLICATION NUMBER: 60/423,690
18 <151> PRIOR FILING DATE: 2002-11-04
21 <160> NUMBER OF SEQ ID NOS: 3
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43 ttc ctt gtg ctg ctg ctg ctt cag ttg tcc gca ccg tcc agc gcc tct   96
44 Phe Leu Val Leu Leu Leu Leu Gln Leu Ser Ala Pro Ser Ser Ala Ser
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47 gag aac ccc aag gtg aag caa aaa gcg ctg atc cgg cag agg gag gtg   144
48 Glu Asn Pro Lys Val Lys Gln Lys Ala Leu Ile Arg Gln Arg Glu Val
49   35          40          45
51 gta gac ctg tat aat gga atg tgt cta caa gga cca gca gga gtt ccc   192
52 Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly Val Pro
53   50          55          60
55 ggt cgt gat ggg agc cct ggg gcc aat ggc att cct ggc aca cct ggc   240
56 Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr Pro Gly
57 65          70          75          80
59 atc cca ggt cgg gat gga ttc aaa ggg gaa aag gga gaa tgc tta agg   288
60 Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys Leu Arg
61   85          90          95
63 gaa agc ttt gag gag tcc tgg acc cca aac tat aag cag tgt tcg tgg   336

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68 Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu Cys Thr
69      115      120      125
71 ttc acg aag atg cgc tcc aac agt gct ctg cga gtt ctg ttc agt ggc 432
72 Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly
73      130      135      140
75 tca ctt cgg ctc aaa tgc agg aat gca tgc tgt cag cgc tgg tat ttt 480
76 Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe
77 145      150      155      160
79 aca ttt aat gga gct gaa tgt tca gga cct ctt ccc atc gaa gcc atc 528
80 Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile
81      165      170      175
83 atc tat ctg gac caa gga agc cct gag tta aat tca act att aat att 576
84 Ile Tyr Leu Asp Gln Gly Ser Pro Glu Leu Asn Ser Thr Ile Asn Ile
85      180      185      190
87 cat cgt act tcc tct gtg gaa gga ctc tgt gaa ggg att ggt gct gga 624
88 His Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly
89      195      200      205
91 ttg gta gat gtg gcc atc tgg gtt ggc acc tgt tca gat tac ccc aaa 672
92 Leu Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys
93      210      215      220
95 gga gac gct tct act gga tgg aat tcc gtg tct cgc atc atc att gaa 720
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117      20      25      30
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119      35      40      45
120 Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly Val Pro
121      50      55      60
122 Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr Pro Gly
123 65      70      75      80
124 Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys Leu Arg
125      85      90      95
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129          115          120          125
130 Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly
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132 Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe
133 145          150          155          160
134 Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile
135          165          170          175
136 Ile Tyr Leu Asp Gln Gly Ser Pro Glu Leu Asn Ser Thr Ile Asn Ile
137          180          185          190
138 His Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly
139          195          200          205
140 Leu Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys
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166 accggatctg gaccctttca atcattagtt agtgggtcct tccattttac catggcataa 240
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:3; N Pos. 18640,18641,18642,18643,18644,18645,18646,18647,18648,18649
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VERIFICATION SUMMARY

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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:240

M:341 Repeated in SeqNo=3